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      1
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      2
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         SEP 09
NEWS
      3
                 present
                 INPADOC: Legal Status data reloaded
         DEC 08
NEWS
                 DISSABS now available on STN
NEWS
      5
         SEP 29
                 PCTFULL: Two new display fields added
         OCT 10
NEWS
      6
                 BIOSIS file reloaded and enhanced
         OCT 21
NEWS
      7
                 BIOSIS file segment of TOXCENTER reloaded and enhanced
        OCT 28
NEWS
      8
     9
         NOV 24
                 MSDS-CCOHS file reloaded
NEWS
         DEC 08
                 CABA reloaded with left truncation
NEWS 10
         DEC 08
                 IMS file names changed
NEWS 11
                 Experimental property data collected by CAS now available
         DEC 09
NEWS 12
                 in REGISTRY
                 STN Entry Date available for display in REGISTRY and CA/CAplus
         DEC 09
NEWS 13
         DEC 17
                 DGENE: Two new display fields added
NEWS 14
                 BIOTECHNO no longer updated
         DEC 18
NEWS 15
                 CROPU no longer updated; subscriber discount no longer
         DEC 19
NEWS 16
                 available
                 Additional INPI reactions and pre-1907 documents added to CAS
         DEC 22
NEWS 17
                 databases
                 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
         DEC 22
NEWS 18
                 ABI-INFORM now available on STN
         DEC 22
NEWS 19
                 Source of Registration (SR) information in REGISTRY updated
NEWS 20
         JAN 27
                 and searchable
                 A new search aid, the Company Name Thesaurus, available in
         JAN 27
NEWS 21
                 CA/CAplus
                 German (DE) application and patent publication number format
NEWS 22
         FEB 05
                 changes
              DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
NEWS EXPRESS
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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              CAS World Wide Web Site (general information)
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FILE 'HOME' ENTERED AT 17:36:20 ON 19 FEB 2004

=> fil reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6 DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

chain nodes : 20 21 22 23 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 25 26 27 28 chain bonds : 9-12 10-11 11-17 12-13 13-14 1-2 1-6 1-7 1-8 2-3 3-4 4-5 8-9 9-10 19-20 20-21 21-22 22-23 23-24 25-26 26-27 14-15 15-16 16-25 17-18 18-19 27-28 exact/norm bonds : 4-5 9-12 10-11 11-17 12-13 1-2 1-6 1-7 1-8 exact bonds : 15-16 16-25 17-18 18-19 19-20 20-21 21-22 14-15 2-3 3-4 8-9 9-10 13-14 22-23 23-24 25-26 26-27 27-28

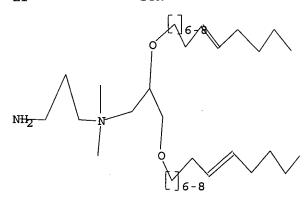
Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS

=> d query

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 17:36:47 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED

2 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

COMPLETE BATCH

PROJECTED ITERATIONS:

2 TO 124

PROJECTED ANSWERS:

0 TO

L2

0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 17:36:51 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 28 TO ITERATE

100.0% PROCESSED

28 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

L3

4 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY SESSION 155.42 155.63

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FILE COVERS 1907 - 19 Feb 2004 VOL 140 ISS 8 FILE LAST UPDATED: 18 Feb 2004 (20040218/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 6 L3

=> d l4 1-6 abs ibib hitstr

```
CRN 370108-98-8
CMF C36 H73 N2 O2 . Br
    Double bond geometry as shown.
                                                            (CH<sub>2</sub>)<sub>8</sub>
                                                                                                                           (CH2)3
    L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AB Mice were vaccinated with plasmid DNA (pDNA) encoding antigen 85A (Ag85A)
                     5A),
Ag85B, or PstS-3 from Mycobacterium tuberculosis either in saline or
formulated for i.m. injections in VC1052:DPyPE (aminopropyl-dimethyl-
  rormulated for 1.m. Injections in volto2:DryFs (aminopropyl-dimethyl-
myristoleploxy-propanaminium
bromide-diphytanoylphosphatidyl-ethanolamine)
(Vaxfectin; Vical, Inc., San Diego, Calif.) or for intranasal
instillations in GRP-DLRIE:DOPE (aminopropyl-dimethyl-bis-dodecyloxy-
propanaminium bromide-dioleoylphosphatidyl-ethanolamine). These two
 novel
cationic and neutral colipid formulations were previously reported to be
effective adjuvants for pDNA-induced antibody responses. The levels of
Ag85-specific total 1g6 (1g6) and 1g6 isotypes were all increased 3- to
10-fold by formulation of pDNA in Vaxfectin. The level of production of
splenic T-cell-derived Th1-type cytokines (interleukin-2 and gamma
interferon) in response to purified Ag85 and to synthetic peptides
spanning the entire Ag85A protein was also significantly higher in
animals
                    spanning the entire Ag85A protein was also significantly higher in als vaccinated with pDNA formulated in Vaxfectin. Cytolytic T-lymphocyte responses generated by pDNA encoding phosphate-binding protein Pats-3 in Vaxfectin were better sustained over time than were those generated by PSUS-3 DNA in saline. Intranssal immunization with Ag85A DNA in saline was completely ineffective, whereas administration in GAP-DLRIE: DOPE induced a pos. Thi-type cytokine response; however, the extent of the latter response was clearly lower than that obtained following i.m. immunization with the same DNA dose. Combined i.m. and intranssal administrations in cationic lipids resulted in stronger immune responses in the spleen and, more importantly, in the lungs as well. Finally, formulation in Vaxfectin increased the protective efficacy of the Ag85B DNA vaccine, as measured by reduced relative light unit counts and CFU counts in the spleen and lungs from mice challenged with bioluminescent
   M. tuberculosis H37Rv. These results may be of importance for future clin. use of DNA vaccines in humans.

ACCESSION NUMBER: 2002:489711 CAPLUS
DOCUMENT NUMBER: 138:225501
    DOCUMENT NUMBER:
    AUTHOR (S):
    CORPORATE SOURCE:
```

138:226501
Improved tuberculosis DNA vaccines by formulation in cationic lipids
D'Souza, S.; Rosseels, V.; Denis, O.; Tanghe, A.; De Smet, N.; Jurion, F.; Palfliet, K.; Castiglioni, N.; Vanonckelen, A.; Wheeler, C.; Huygen, K. Mycobacterial Immunology, Pasteur Institute of Brussels, Brussels, Bl180, Belg.
Infection and Immunity (2002), 70(7), 3681-3688
CODEN: INFIBR; ISSN: 0019-9567
American Society for Microbiology
Journal
English
iin PUBLISHER: DOCUMENT TYPE: DOCUMENT TYPE: Journal
LANGUAGE: English

IT 370108-99-9, Vaxfectin
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(tuberculosis DNA vaccines formulated in cationic lipids)
RN 370108-99-9 CAPLUS
CN 1-Propanaminium, N-(3-aminopropyl)-N.N-dimethyl-2, 3-bis[(9Z)-9-tetradecenyloxy)-, bromide, mixt. with (1R)-1-[([(2-aminoethoxy)hydroxyphosphinyl)oxy]methyl)-1, 2-ethanediyl
bis(3,7,11,15-tetramethylhexadecanoate) (1:1) (9CI) (CA INDEX NAME) CM 1 CRN 370108-98-8

SOURCE:

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN (Continued) CRN 201036-16-0 CMF C45 H90 N O8 P

Absolute stereochemistry

PAGE 1-B

REFERENCE COUNT: THIS

THERE ARE 33 CITED REFERENCES AVAILABLE FOR 33

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FORMAT

ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN CMF C36 H73 N2 O2 . Br $\,$ (Continued)

Double bond geometry as shown.

● вг

СМ 2

CRN 201036-16-0 CMF C45 H90 N O8 P

Absolute stereochemistry.

PAGE 1-B

THERE ARE 43 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT: 43 RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

```
ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
The large number of cytofectin and co-lipid combinations currently used
 L4
AB
             lipoplex-mediated gene delivery reflects the fact that the optimal cytofectin/co-lipid combination varies with the application. The effects of structural changes in both cytofectin and co-lipid were systematically examined to identify structure-activity relationships. Specifically,
alkyl
             chain length, degree of unsatn. and the head group to which the alkyl
 side
             chain was attached were examined to determine their effect on lipoplex
structure
             and biol. activity. The macroscopic lipoplex structure was assessed
using
a dye-binding assay and the biol. activity was examined using in vitro
transfection in three diverse cell lines. Lipoplexes were formulated in
three different vehicles currently in use for in vivo delivery of naked
plasmid DNA (pDNA) and lipoplex formulations. The changes in dye
accessibility were consistent with atructural changes in the lipoplex,
which correlated with alterations in the formulation. In contrast,
transfection activity of different lipoplexes was cell type and vehicle
dependent and did not correlate with dye accessibility. Overall, the
results show a correlation between transfection and enhanced membrane
fluidity in both the lipoplex and cellular membranes.

ACCESSION NUMBER: 2002:325272 CAPLUS
DOCUMENT NUMBER: 138:61130
                                                                  138:61130
 DOCUMENT NUMBER:
                                                                  Synergy between cationic lipid and co-lipid
  TITLE:
 determines
                                                                  the macroscopic structure and transfection activity
 of
                                                                 lipoplexes Ferrari, Marilyn E.; Rusalov, Denis; Enas, Joel; Wheeler, Carl J. Department of Chemistry, Vical Incorporated, San Diego, CA, 92121, USA Nucleic Acids Research (2002), 30(8), 1808-1816 CODEN: NARRAD; ISSN: 0305-1048 Oxford University Press
AUTHOR (5):
 CORPORATE SOURCE:
SOURCE:
 PUBLISHER:
             MENT TYPE: Journal
JAGE: English
370108-98-8P 479200-95-8P
  DOCUMENT TYPE:
LANGUAGE:
             $70108-98-87 479200-95-87
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (BioLogical study); PREP (Preparation); USES (Uses)
(synergy between cationic lipid and co-lipid dets. the macroscopic
structure and transfection activity of lipoplexes)
370108-98-8 CAPLUS
             370108-98-8 CAPLUS
1-Propanaminium, N-(3-aminopropyl)-N,N-dimethyl-2,3-bis[(9Z)-9-tetradecenyloxy)-, bromide (9CI) (CA INDEX NAME)
 Double bond geometry as shown.
```

ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AB Antigen specific immune responses were characterized after i.m. immunization of BALB/c mice with 5 antigen encoding plasmid DNAs (DDNAs) complexed with Vaxfectin, a cationic lipid formulation. Vaxfectin increased IgG titers for all of the antigens with no effect on the CTL responses to the 2 antigens for which CTL assays were performed. Both antigen specific IgG1 and IgG2a were increased, although IgG2a remained greater than IgG1. Furthermore, Vaxfectin had no effect on IFN-y or IL-4 production by splenocytes re-stimulated with antigen, suggesting that the action of the complex of the complex

and maintains Th1 type immune responses to plasmid immunitation

AUTHOR(S): Reyes, L.; Hartikka, J.; Bozoukova, V.; Sukhu, L.; Nishioka, W.; Singh, G.; Ferrari, M.; Enas, J.; Wheeler, C. J.; Manthorpe, M.; Wloch, M. K.

CORPORATE SOURCE: Department of Cell Biology, Vical Incorporated, San Diego, CA, 92121, USA

SOURCE: Vaccine (2001), 19(27), 3778-3786

CODEN: VACCDE; ISSN: 0264-410X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

IANGUAGE: English.

IT 370108-99-9, Vaxfectin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Vaxfectin enhanced antigen-specific antibody titers maintaining Th1 type immune responses to plasmid DNA vaccines)

RN 370108-99-9 CAPULS

CN 1-Propanaminium, N-(3-aminopropyl)-N,N-dimethyl-2,3-bis(92)-9-tetradecenyloxyl-, bromide, mixt. with (IR)-1-[[(12-aminoethoxyl)ydroxyphosphinyl]oxylmethyl]-1,2-ethanediyl bis(3,7,11,15-tetramethylhexadecanoate) (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 370108-98-8 CMF C36 H73 N2 O2 . Br

Double bond geometry as shown.

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

• Br

479200-95-8 CAPLUS 1-Propanaminium, N-(3-aminopropyl)-N,N-dimethyl-2,3-bis[(92)-9-octadecenyloxy]-, bromide (9CI) (CA INDEX NAME) 479200-95-8

REFERENCE COUNT: THIS

THERE ARE 12 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

• Br-

CM 2

CRN 201036-16-0 CMF C45 H90 N O8 P

Absolute stereochemistry.

PAGE 1-B

REFERENCE COUNT: THIS

56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR

FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

```
ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
This report characterizes Vaxfectin, a novel cationic and neutral lipid
formulation which enhances antibody responses when complexed with an
antigen-encoding plasmid DNA (pDNA). In mice, i.m. injection of
              sectin formulated with pDNA encoding influenza nucleoprotein (NP) increased antibody titers $ 20-fold, to levels that could not be reached with pDNA alone. As little as 1 µg of pDNA formulated with Vaxfectin per muscle resulted in higher anti-NP titers than that obtained with 25 µg naked pDNA. The antibody titers in animals injected with Vaxfectin-pDNA remained higher than in the naked pDNA controls for at least 9 mo. The enhancement in antibody titers was dependent on the Vaxfectin dose and
              accomplished without diminishing the strong anti-NP cytolytic T cell response typical of pDNA-based vaccines. In rabbits, complexing pDNA
 with
              Vaxfectin enhanced antibody titers \leq 50-fold with needle and syringe injections and also augmented humoral responses when combined
 with
                a needle-free injection device. Vaxfectin did not facilitate
              stection and/or increase synthesis of \beta-galactosidase reporter protein in muscle tissue. ELISPOT assays performed on bone marrow cells from vaccinated mice showed that Vaxfectin produced a 3- to 5-fold increase in the number of NP-specific plasma cells. Thus, Vaxfectin should be a
 useful
useful
adjuvant for enhancing pDNA-based vaccinations.
ACCESSION NUMBER: 2001:146642 CAPLUS
DOCUMENT NUMBER: 135:330213
                                                                        135:330213
Vaxfectin enhances the humoral immune response to plasmid DNA-encoded antigens Hartikka, J.; Bozoukova, V.; Ferrari, M.; Sukhu, L.; Enas, J.; Sawdey, M.; Wloch, M. K.; Tonsky, K.; Norman, J.; Manthorpe, M.; Wheeler, C. J.
Department of Cell Biology, Vical Incorporated, San Diego, CA, 92121, USA
Vaccine (2001), 19(15-16), 1911-1923
CODEN: VACCDE; ISSN 0264-410X
Elsevier Science Ltd.
Journal
 TITLE:
AUTHOR (S):
CORPORATE SOURCE:
SOURCE:
 PUBLISHER:
 DOCUMENT TYPE:
                                                                         Journal
English
  LANGUAGE:
LANGUAGE: English
T 370108-99-9P, Vaxfectin
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological
              logical
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
    (Vaxfectin enhances the humoral immune response to plasmid DNA-encoded
               antigens)
370108-99-9
                                                  CAPLUS
              AFFO3
-Propanaminium, N-(3-aminopropyl)-N,N-dimethyl-2,3-bis[(9Z)-9-tetradecenyloxy]-, bromide, mixt. with (1R)-1-[[([2-aminoethoxy) hydroxyphosphinyl]oxy)methyl]-1,2-ethanediyl bis(3,7,11,15-tetramethylhexadecanoate) (1:1) (9CI) (CA INDEX NAME)
               CM 1
               CRN 370108-98-8
CMF C36 H73 N2 O2 . Br
Double bond geometry as shown.
```

ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR

FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE

$$\begin{array}{c|c} Z & (CH_2)_{\theta} & \text{Me} & \text{Ne} \\ \hline Z & (CH_2)_{\theta} & \text{Ne} & \text{Ne} \\ \hline & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & \\ & \\ & & \\ & \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$$

ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

2

CRN 201036-16-0 CMF C45 H90 N O

Absolute stereochemistry

PAGE 1-B

(Continued)

370108-98-89, VC 1052
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(Vaxfectin enhances the humoral immune response to plasmid DNA-encoded

antigens)
370108-98-8 CAPLUS
1-Propanaminium, N-(3-aminopropyl)-N,N-dimethyl-2,3-bis[(92)-9-tetradecenyloxy]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.

ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN A series of 2,3-dialkyloxypropyl quaternary ammonium lipids containing hydroxyalkyl chains on the quaternary amine were synthesized, formulated with dioleoylphosphatidyletha with dioleoyiphosphataylcommunication with displaying to enhance the activity of an intercellular adhesion mol. 1 (ICAM-1) antisense oligonucleotide, ISIS 1570. Cationic liposomes prepared with hydroxyethyl, hydroxypropyl, and hydroxybutyl substituted cationic lipid all enhanced the activity of the ICAM-1 antisense oligonucleotide. Cationic lipids containing hydroxypentyl quaternary amines only inally enhanced the activity of ISIS 1570. Hydroxyethyl cationic lipids synthesized with dimyristyl (C14:0) and dioleyl (C18:1) alkyl chains were equally effective. Activity of cationic lipids containing saturated I groups decreased as the chain length increased, i.e. the dimyristyl (C14:0) was more effective than dipalmityl (C16:0) lipid, which was more effective than distearyl (C18:0). The phase transition temperature of cationic

containing saturated aliphatic chains was 56 for the distearyl lipid, 42

the dipalmityl lipid, and 24° for the dimyristyl lipid. Cationic lipids with dioleyl alkyl chains required DOPE for activity, with optimal activity occurring at 50 mol8. In contrast, a dimyristyl containing

onic lipid did not require DOPE to enhance the activity of ISIS 1570. Formulation with different phosphatidylethanolamine derivs., revealed that

that

optimal activity was obtained with DOPE. These studies demonstrate that
several cationic lipid species enhance the activity of phosphorothicate
antisense oligonuclectides and provide further information on the
mechanism by which cationic lipids enhance the activity of
phosphorothicate oligodecxynuclectides.

ACCESSION NUMBER: 1998:229461 CAPUS
DOCUMENT NUMBER: 129:19588
TITLE: Structural requirements for cationic lipid mediated
phosphorothicate oligonuclectides delivery to cells

in

AUTHOR (S):

Culture
Bennett, C. F.; Mirejovsky, D.; Crooke, R. M.; Tsai,
Y. J.; Felgner, J.; Sridhar, C. N.; Wheeler, C. J.;
Felgner, P. L.
ISIS Pharmaceuticals, Carlsbad, CA, 92008, USA
JOURNAL OF DRUG Targeting (1998), 5(3), 149-162
CODEN: JDTAEH; ISSN: 1061-186X
Harwood Academic Publishers

CORPORATE SOURCE:

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE: English 207602-65-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

clogical
study, unclassified); PRP (Properties); BIOL (Biological study)
 (structural requirements for cationic liposome mediated
phosphorothicate oligonucleotides delivery to cells)
207602-65-1 CAPLUS

zu-no2-65-1 CAPLUS
1-Propanaminium, N-(3-aminopropyl)-N,N-dimethyl-2,3-bis{[(92)-1-oxo-9octadecenyl]oxy]-, bromide (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN (Continued

PAGE 1-A

Me Me Me

$$(CH_2)_7$$
 $(CH_2)_7$
 $(CH_2)_7$

B pr-

PAGE 1-B

_Me

fil reg SINCE FILE TOTAL COST IN U.S. DOLLARS ENTRY SESSION 185.48 29.85 FULL ESTIMATED COST TOTAL SINCE FILE DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SESSION ENTRY -4.16 -4.16 CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6 DICTIONARY FILE UPDATES: 18 FEB 2004 HIGHEST RN 651705-73-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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=> d 15

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS ON STN
RN 299207-54-8 REGISTRY
CN 1-Propanaminium, N-(2-aminoethyl)-N,N-dimethyl-2,3-bis[(92)-9-tetradecenyloxy)-, bromide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN CAP-PROPIE
FS STEREOSEARCH
MF C35 H71 N2 02 Br
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.

• Br-

- 3 REFERENCES IN FILE CA (1907 TO DATE) 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 6.62 192.10 FULL ESTIMATED COST DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION 0.00 -4.16 CA SUBSCRIBER PRICE

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FILE COVERS 1907 - 19 Feb 2004 VOL 140 ISS 8 FILE LAST UPDATED: 18 Feb 2004 (20040218/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 299207-54-8/rn

3 299207-54-8

0 299207-54-8D

L6 3 299207-54-8/RN

(299207-54-8 (NOTL) 299207-54-8D )
```

=> d 16 abs ibib hitstr

Double bond geometry as shown.

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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=> d 16 2-3 abs ibib hitstr

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ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
A method of increasing the strength of the immune response of vector
vaccines using an expression vector for the Flt3 ligand is described.
  L6
AB
                  vaccines are made of independent non-integrating expression vectors: c
encodes the antigen or a cytokine and the other encodes the Flt3 ligar
The present invention also provides a method broadly directed to
   improving
                 oving immune response of a vertebrate in need of immunotherapy by administering in vivo, into a tissue of a vertebrate, a Fit-3 ligand-encoding polynucleotide and one or more antigen- or cytokine-encoding polynucleotides. The polynucleotides are incorporated into the cells of the vertebrate in vivo, and a prophylactically or therapeutically effective amount of a Fit-3 ligand and one or more antigens is produced
   in
  vivo.
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
                                                                                 2001:101291 CAPLUS 134:161880 CDNAs encoding the Flt-3 receptor ligand and there
                                                                                 as adjuvants in vector vaccines
Hermanson, Gary George
Vical Inc., USA
PCT Int. Appl., 148 pp.
CODEN: PIXXD2
  PATENT ASSIGNEE(S):
SOURCE:
   INVENTOR (S) :
  DOCUMENT TYPE:
LANGUAGE:
                                                                               Patent
English
  FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
WO 2001009303 A2 20010208 WO 2000-US20679 20000731
WO 2001009303 A2 20010816
W: CA, JP, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
PRIORITY APPLN. INFO: US 1999-146170P P 19990730
IT 299207-54-8, GAP-DMORIE
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(in delivery of vector vaccines; cDNAs encoding Flt-3 receptor ligand and there use as adjuvants in vector vaccines)
RN 299207-54-8 CAPLUS
CN 1-Propanaminium, N-(2-aminoethv1)-N N-41-13-13-14
                 299207-54-8 CAPLUS
1-Propanaminium, N-(2-aminoethyl)-N,N-dimethyl-2,3-bis{(9Z)-9-tetradecenyloxy}-, bromide (9CI) (CA INDEX NAME)
  Double bond geometry as shown.
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Double bond geometry as shown.

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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=> logoff y COST IN U.S. DOLLARS

TOTAL SINCE FILE ENTRY SESSION

20.09 212.19 FULL ESTIMATED COST

TOTAL DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE SESSION ENTRY

-2.08 -6.24 CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 17:42:56 ON 19 FEB 2004

			I DD	Trime etams
L Number	Hits	Search Text	DB	Time stamp
1.	10		USPAT;	2004/02/19 18:28
		("5,459,127") or ("5,580,859") or	US-PGPUB	
		("5,589,466") or ("5,641,665") or		
		("5,676,954") or ("5,693,622") or		
		("5,703,055") or ("6,147,055") or		
		("6,235,310B1")).PN.		
2	11	(("5,264,618") or ("5,334,761") or	USPAT;	2004/02/19 19:17
		("5,459,127") or ("5,580,859") or	US-PGPUB	
	٠,	("5,589,466") or ("5,641,665") or		
		("5,676,954") or ("5,693,622") or		
		("5,703,055") or ("6,147,055") or		·
		("6,235,310")).PN.		
3	1	1 ' ' '	USPAT;	2004/02/19 18:33
	•	(20000032011 / 12111	US-PGPUB	
4	1	("20030191082").PN.	USPAT;	2004/02/19 18:43
"	_	(20030131002 / 11111	US-PGPUB	
5	2	(("6586409") or ("6670332")).PN.	USPAT;	2004/02/19 19:17
]		((0000103 / 01 (00/0002 ///////	US-PGPUB	
6	12	(("5,264,618") or ("5,334,761") or	USPAT;	2004/02/19 19:19
0	12	("5,459,127") or ("5,580,859") or	US-PGPUB	
		("5,589,466") or ("5,641,665") or	05 10105	
		("5,676,954") or ("5,693,622") or		
		("5,703,055") or ("6,147,055") or		
		("6,235,310") or ("6,399,588")).PN.		
	450530		USPAT;	2004/02/19 19:19
7	459539	GAP-	US-PGPUB	2004/02/19 19:19
	_	CAD DWODTE and ///UE 264 619"\ or	USPAT;	2004/02/19 19:20
9	0	GAP-DMORIE and ((("5,264,618") or	US-PGPUB	2004/02/13 13:20
		("5,334,761") or ("5,459,127") or	03-FGF0B	
		("5,580,859") or ("5,589,466") or		
		("5,641,665") or ("5,676,954") or		· [
		("5,693,622") or ("5,703,055") or		
'		("6,147,055") or ("6,235,310") or		
		("6,399,588")).PN.)		0004/00/10 10 00
8	4	GAP-DMORIE	USPAT;	2004/02/19 19:20
			US-PGPUB	